Claims

1. A mono alkyl glyceryl ester phosphobetaine conforming to the following structure;

 $\begin{array}{c} R^{1}\text{-O-(CH}_{2}\text{CH}_{2}\text{O})_{a}\text{-(CH}_{2}\text{CH}(\text{CH}_{3})\text{O})_{b}\text{-(CH}_{2}\text{CH}_{2}\text{O})_{c}} - \text{O-CH}_{2} \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\ & | \\$

O.

wherein

R¹ is alkyl or alkylene having between 7 and 21 carbon atoms;

a, b and c are each independently integers ranging from 0 to 20, with the proviso that

a + b + c be equal to or greater than 1;

R² is selected from the group consisting of;

alkyl having 7 to 21 carbon atoms

and

R³ is alkyl having 7 to 21 carbon atoms.

wherein;

R¹ is alkyl or alkylene having between 7 and 21 carbon atoms;

a, b and c are each independently integers ranging from 0 to 20, with the proviso that a + b + c be equal to or greater than 1;

R² is selected from the group consisting of;

alkyl having 7 to 21 carbon atoms

and

$$R^3$$
-C(O)-N(H)-(CH₂)₃-

R³ is alkyl having 7 to 21 carbon atoms.

- 2. A mono alkyl glyceryl ester phosphobetaine of claim 1 wherein R^2 alkyl having 7 to 21 carbon atoms.
- 3. A mono alkyl glyceryl ester phosphobetaine of claim 1 wherein

$$R^2$$
 is R^3 -C(O)-N(H)-(CH₂)₃-.

- 4. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R¹ is C₇ H₁₇.
- 5. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R¹ is C₉ H₁₉.
- 6. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R^1 is C_{11} H_{23} .
- 7. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R^1 is $C_{13}H_{27}$.

- 8. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R^1 is C_{15} H_{31} .
- 9. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R¹ is C₁₇ H₃₅.
- 10. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R¹ is C₁₉ H₃₉.
- 11. A mono alkyl glyceryl ester phosphobetaine of claim 2 wherein R¹ is C₂₁ H₄₃.
- 12. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R¹ is C₇ H₁₇.
- 13. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R¹ is C₉ H₁₉.
- 14. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R¹ is C₁₁ H₂₃.
- 15. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R^1 is $C_{13}H_{27}$.
- 16. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R¹ is C₁₅ H₃₁.
- 17. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R¹ is C₁₇ H₃₅.
- 18. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R¹ is C₁₉ H₃₉.
- 19. A mono alkyl glyceryl ester phosphobetaine of claim 3 wherein R^1 is C_{21} H_{43} .